## Appendix

**Table A1:** List of variables in the analysis and their descriptive statistics

	No. of observations		Mean			SD			
Variables	Kongsvinger	Jessheim	Drøbak	Kongsvinger	Jessheim	Drøbak	Kongsvinger	Jessheim	Drøbak
Dependent variable: Car driving distance	484	580	808	168.3	197.3	195.2	228,9	216.0	228.1
Demographics									
Gender									
Female (reference group)	226	294	424						
Male	257	282	372						
Respondent's age group	483	576	796	51.9	48.9	52.1	14.3	14.2	13.7
Age 17-30 (reference group)	43	67	61						
Age 31-50	164	246	279						
Age 51-61	131	132	228						
Age > 61	145	131	228						
Children in the household									
Children aged < 7*	177	93	95						
Children aged 7-11*	179	86	112						
Children aged 12-17*	190	101	157						
Responsibility for transporting children									
Yes	98	160	200						
No	397	437	630						
Household size	483	576	796	2.1	2.5	2.5	1.2	1.3	1.2
Socio-economic									
Employment dummy									
Employed/student	353	479	649						
Not active in the labor force	154	134	194						

<sup>\*</sup> Reference group: households without children in the age group

## Variable list continued

	No. of observations		Mean			SD			
Variables	Kongsvinger	Jessheim	Drøbak	Kongsvinger	Jessheim	Drøbak	Kongsvinger	Jessheim	Drøbak
Socio-economic									
College level education (reference group:									
high school or below)									
Household gross annual income per adult	427	510	683	499520	494706	501330	244917	188437	201369
<300 000 NOK	52	48	66						
300 000 - 399 999 NOK	115	95	128						
400 000 - 499 999 NOK	54	123	139						
500 000 - 599 999 NOK	88	91	129						
> 600 000 NOK	118	142	221						
<b>Built environment attributes</b>									
Residential distance from the city center	507	616	843	2.9	2.3	2.1	3.0	1.5	1.4
Population density in a 250mx250m square	507	616	843	107	162	160	69	94	82
Job density within 2km from residence	507	616	843	4447	5577	3133	2101	2863	946
Commuting distance	352	475	643	24.2	25.6	26.8	55.8	19.5	18.5
Residential preference									
Shopping factor									
Amenities factor									
Investment factor									
Family factor									
Exercise factor									

**Table A2:** Proportion of commuters by origin and destination

	Commute origins						
<b>Commute destination</b>	Kongsvinger	Jessheim	Drøbak				
Oslo	11 %	31 %	44 %				
Kongsvinger	72 %						
Jessheim		35 %					
Drøbak			22 %				
Less than 20km	1 %	6 %	16 %				
Between 20km & 50km	8 %	17 %	9 %				
Between 50km & 100km	6 %	5 %	5 %				
Greater than 100km	1 %						
Not specified	1 %	6 %	3 %				

Source: Based on Statistics Norway's (2015a) register based employment data.

**Table A3:** Summary statistics for variables associated with the logistic regression in Table 9

	Number of				
	observations	Mean	Std. dev.	Min	Max
Residential distance from the city center (km)	357	2.0	1.135	.071	5.208
Job density	357	5927.6	2712.505	195	8782
Population density	357	168.7	84.525	2	455
Age	336	51.6	14.131	18	77
Household size	357	2.62	1.297	1	5
Household income per adult (1000 NOK)	306	504.9	204.915	150	1200
Commuting distance	232	42.0	11.744	21	98
Commuting by train three or more days a week	227	59.9%	.491	0	1
Gender (male)	336	54.5%	.499	0	1
Employment	357	63.0%	.484	0	1
College education	336	60.7%	.489	0	1
Shopping factor	355	.355	1.011	-2.283	2.382
Amenities factor	355	091	.989	-3.097	2.618
Investment factor	355	.0167	1.001	-2.940	2.217
Family factor	355	004	1.035	-2.092	2.285
Exercise factor	355	090	1.029	-2.907	2.035

Note: 1. The summary statistics is calculated for commuting distances greater than 20km and commuting trips originating in the city of Jessheim.

<sup>2.</sup> Transit commuters in Kongsvinger, Jessheim and Drøbak account respectively for 10%, 26% and 32% of the sample in each city.